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PATENT & TRADEMARK OFFICE



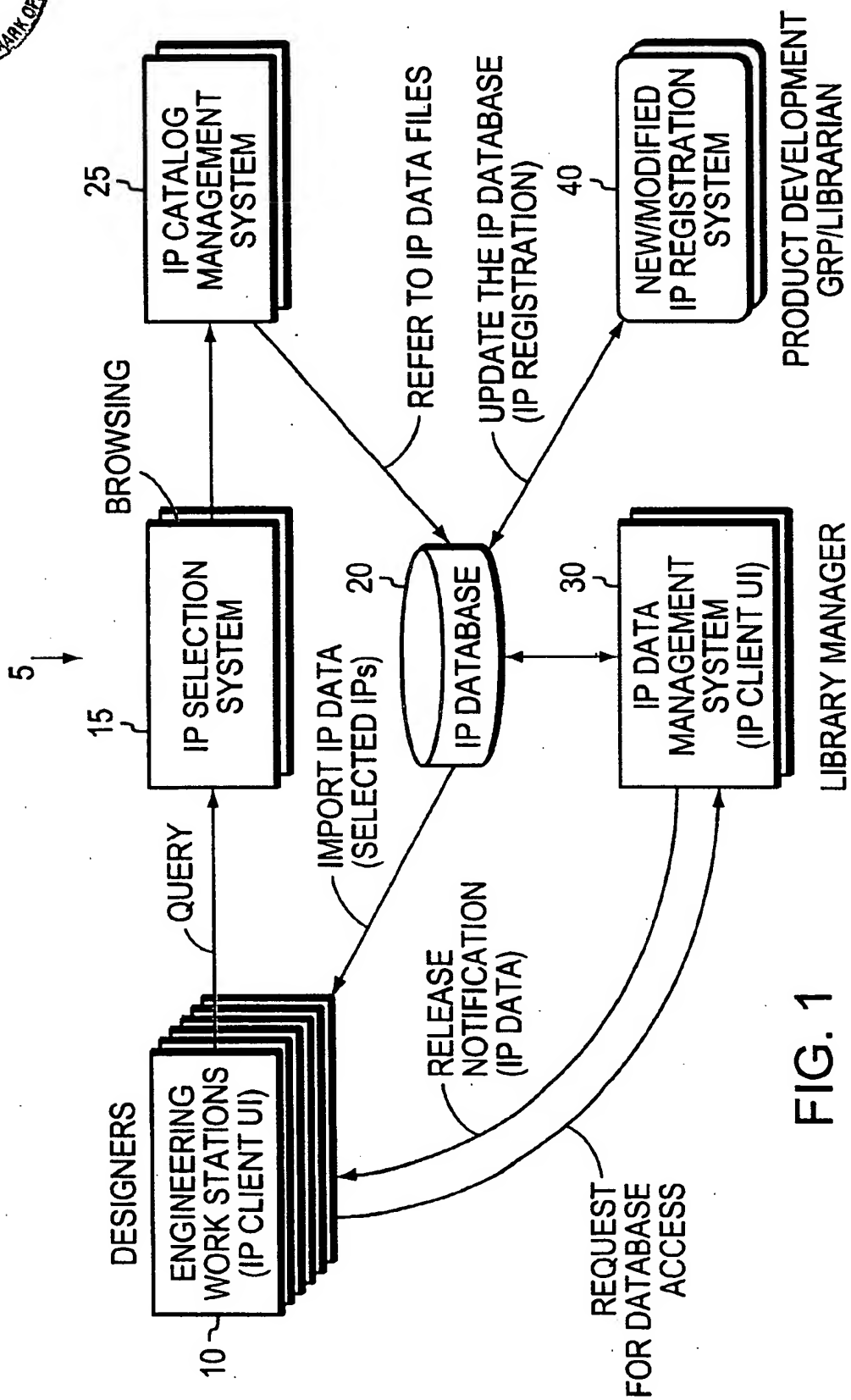


FIG. 1

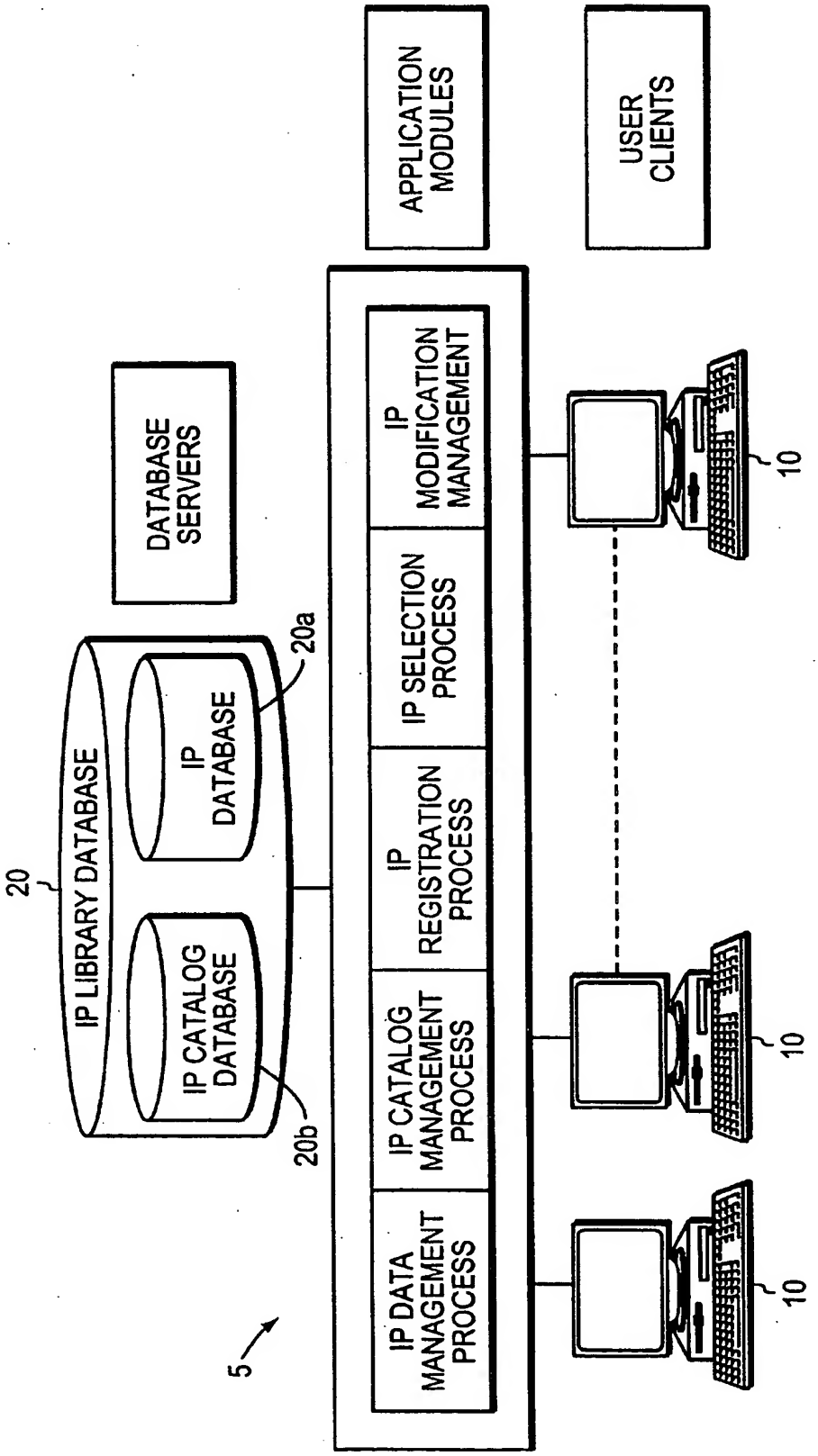
APPLICATION MODULES
USER CLIENTS
DATABASE SERVERS
IP MODIFICATION MANAGEMENT
IP SELECTION PROCESS
IP REGISTRATION PROCESS
IP CATALOG MANAGEMENT PROCESS
IP DATA MANAGEMENT PROCESS
IP LIBRARY DATABASE
IP DATABASE
IP CATALOG DATABASE
20
20a
20b
10
10
10
5

FIG. 2

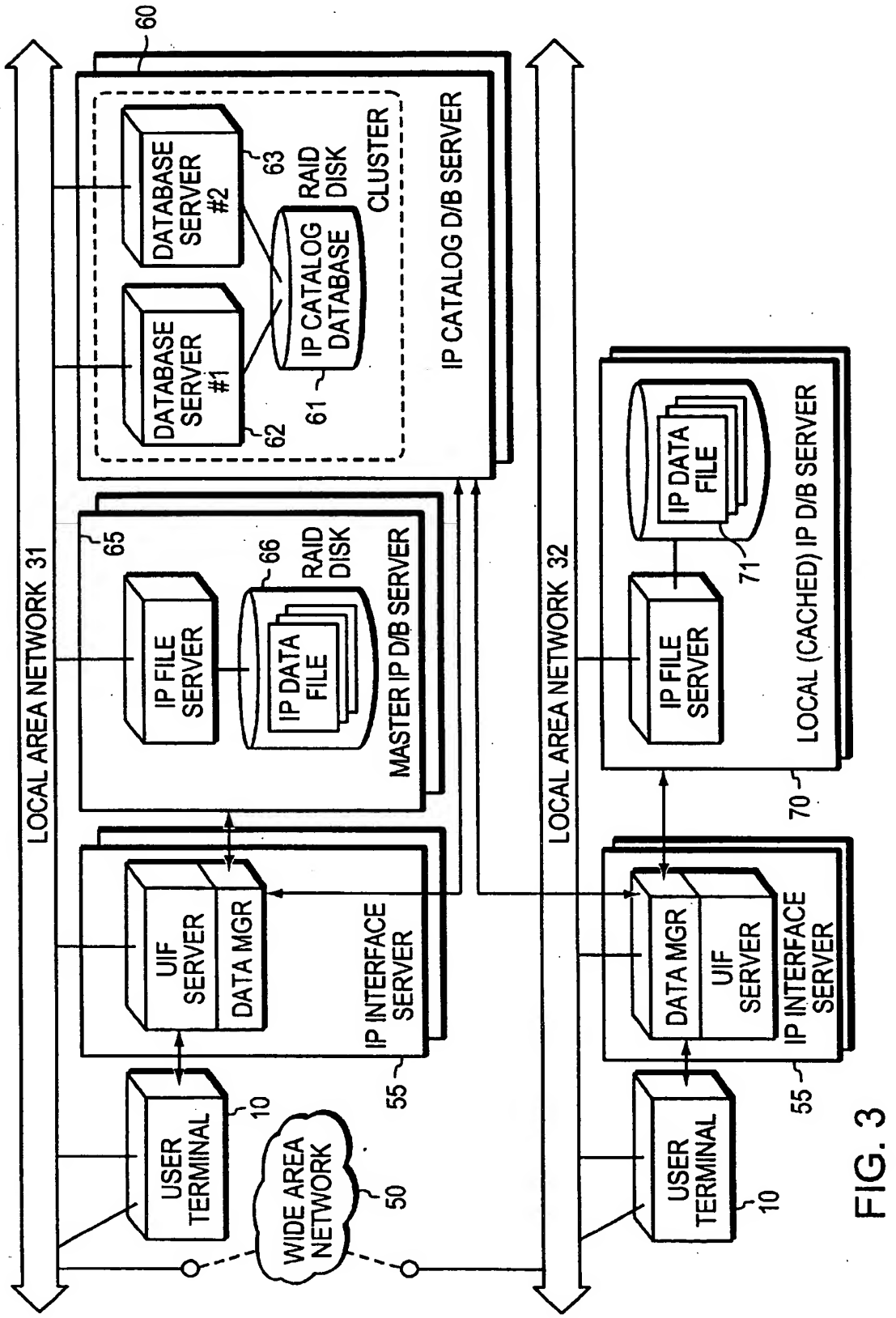
60
DATABASE SERVER #2
63
RAID DISK
CLUSTER
DATABASE SERVER #1
IP CATALOG DATABASE
62
61
IP CATALOG D/B SERVER
LOCAL AREA NETWORK 31
65
66
RAID DISK
IP FILE SERVER
IP DATA FILE
MASTER IP D/B SERVER
UIF SERVER
DATA MGR
IP INTERFACE SERVER
55
USER TERMINAL
10
WIDE AREA NETWORK
50
LOCAL AREA NETWORK 32
IP DATA FILE
71
IP FILE SERVER
LOCAL (CACHED) IP D/B SERVER
70
DATA MGR
UIF SERVER
IP INTERFACE SERVER
55
USER TERMINAL
10

FIG. 3

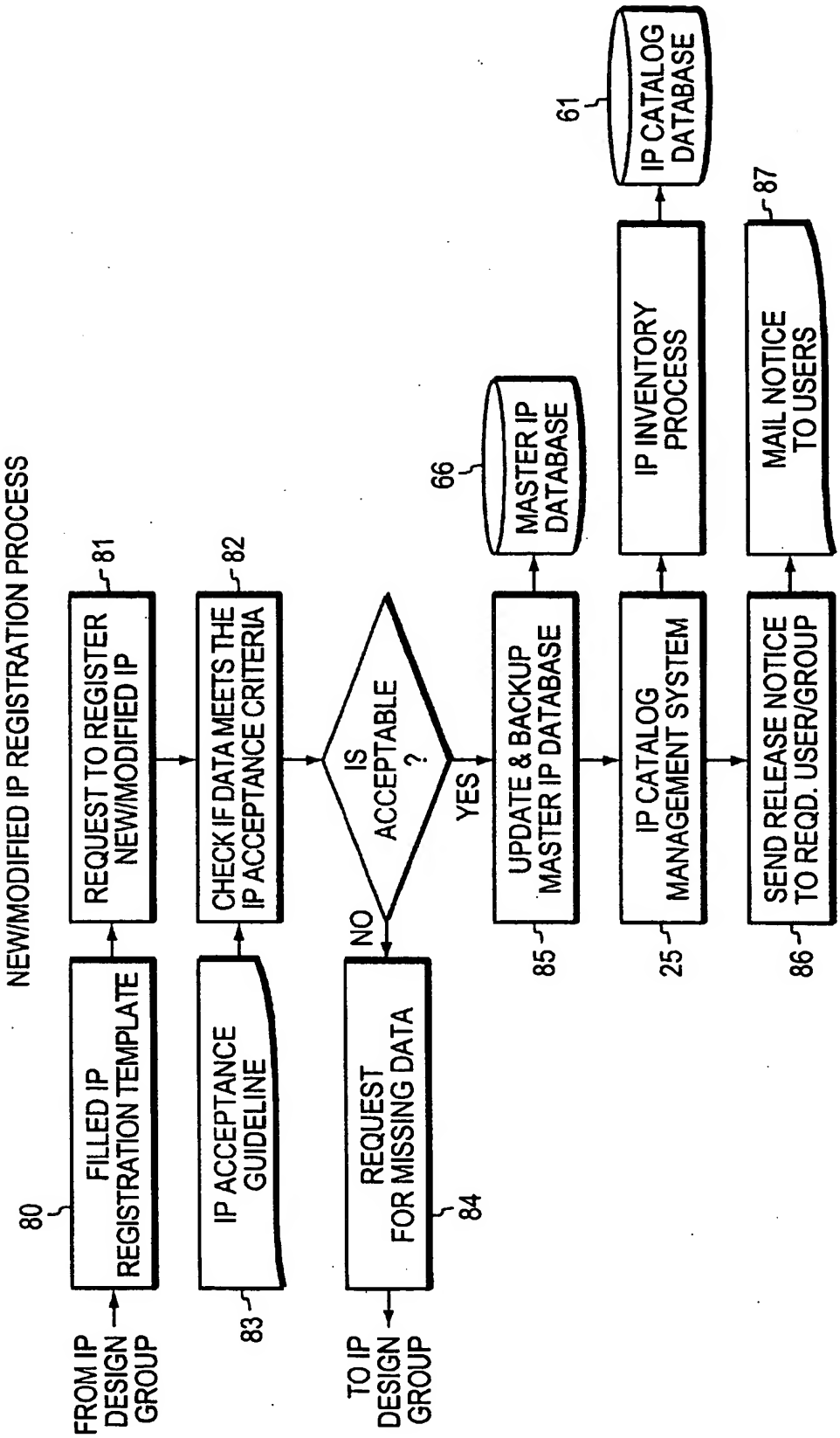
NEW/MODIFIED IP REGISTRATION PROCESS
80
FILLED IP REGISTRATION TEMPLATE
FROM IP DESIGN GROUP
81
REQUEST TO REGISTER NEW/MODIFIED IP
82
CHECK IF DATA MEETS THE IP ACCEPTANCE CRITERIA
83
IP ACCEPTANCE GUIDELINE
IS ACCEPTABLE ?
NO
YES
84
REQUEST FOR MISSING DATA
TO IP DESIGN GROUP
85
UPDATE & BACKUP MASTER IP DATABASE
66
MASTER IP DATABASE
25
IP CATALOG MANAGEMENT SYSTEM
61
IP CATALOG DATABASE
IP INVENTORY PROCESS
86
SEND RELEASE NOTICE TO REQD. USER/GROUP
87
MAIL NOTICE TO USERS

FIG. 4

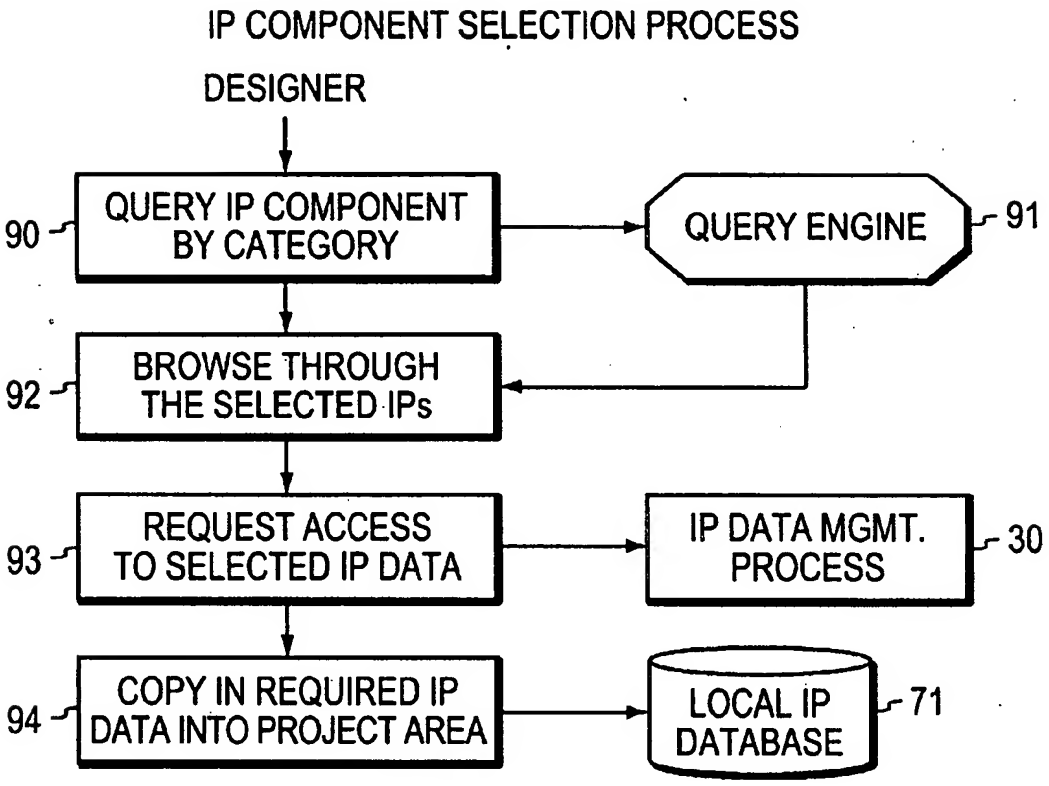
IP COMPONENT SELECTION PROCESS
DESIGNER
90
QUERY IP COMPONENT BY CATEGORY
QUERY ENGINE
91
92
BROWSE THROUGH THE SELECTED IPs
93
REQUEST ACCESS TO SELECTED IP DATA
IP DATA MGMT. PROCESS
30
94
COPY IN REQUIRED IP DATA INTO PROJECT AREA
LOCAL IP DATABASE
71

FIG. 5

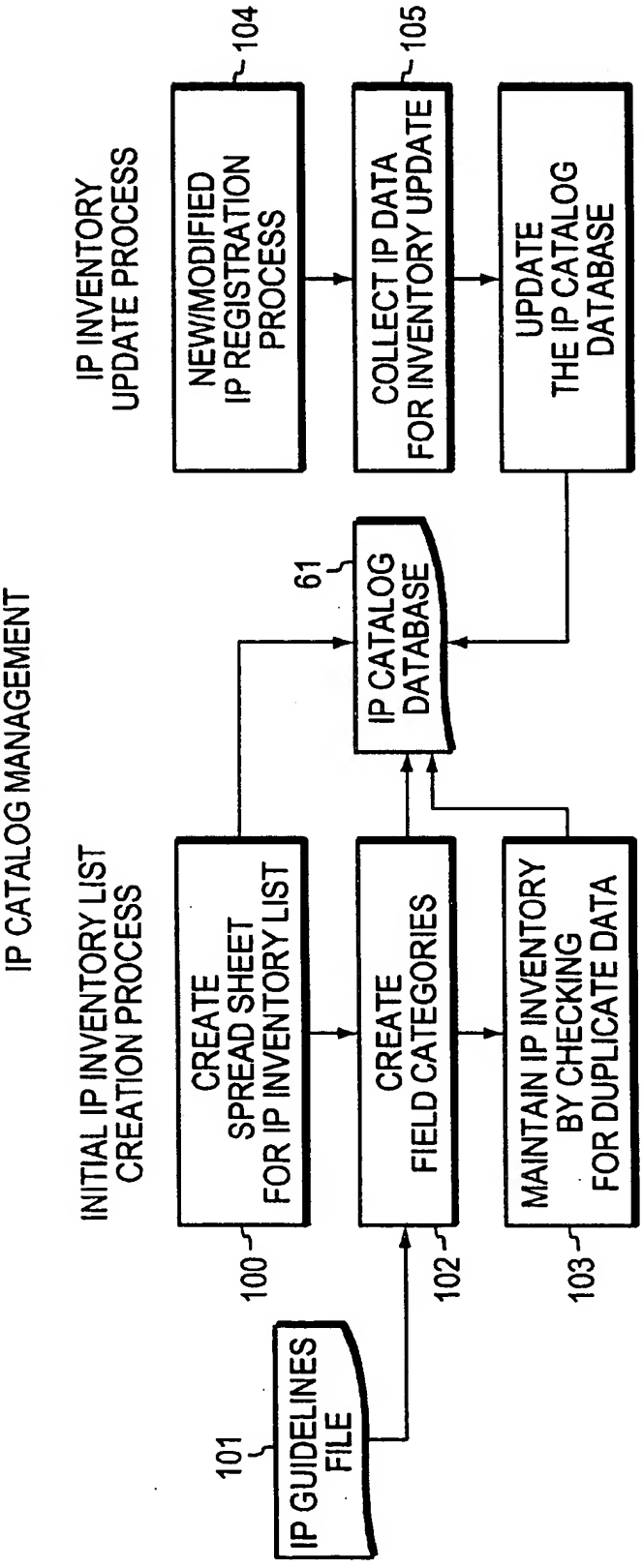
IP CATALOG MANAGEMENT
INITIAL IP INVENTORY LIST CREATION PROCESS
IP INVENTORY UPDATE PROCESS
CREATE SPREAD SHEET FOR IP INVENTORY LIST
CREATE FIELD CATEGORIES
MAINTAIN IP INVENTORY BY CHECKING FOR DUPLICATE DATA
IP GUIDELINES FILE
IP CATALOG DATABASE
NEW/MODIFIED IP REGISTRATION PROCESS
COLLECT IP DATA FOR INVENTORY UPDATE
UPDATE THE IP CATALOG DATABASE
100
101
102
103
104
105
61

FIG. 6

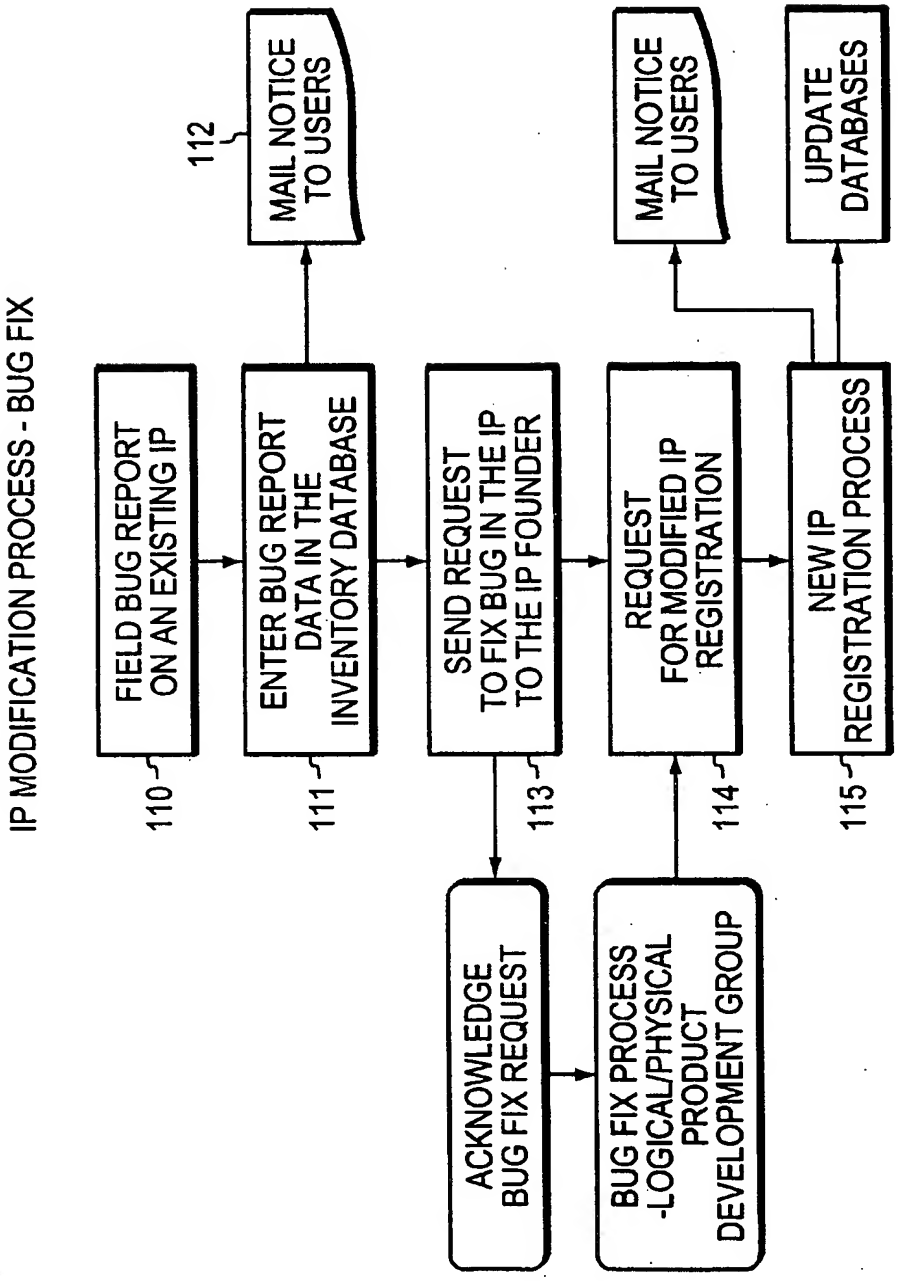
IP MODIFICATION PROCESS - BUG FIX
FIELD BUG REPORT ON AN EXISTING IP
110
ENTER BUG REPORT DATA IN THE INVENTORY DATABASE
111
112
MAIL NOTICE TO USERS
SEND REQUEST TO FIX BUG IN THE IP TO THE IP FOUNDER
113
ACKNOWLEDGE BUG FIX REQUEST
BUG FIX PROCESS -LOGICAL/PHYSICAL PRODUCT DEVELOPMENT GROUP
REQUEST FOR MODIFIED IP REGISTRATION
114
MAIL NOTICE TO USERS
NEW IP REGISTRATION PROCESS
115
UPDATE DATABASES

FIG. 7

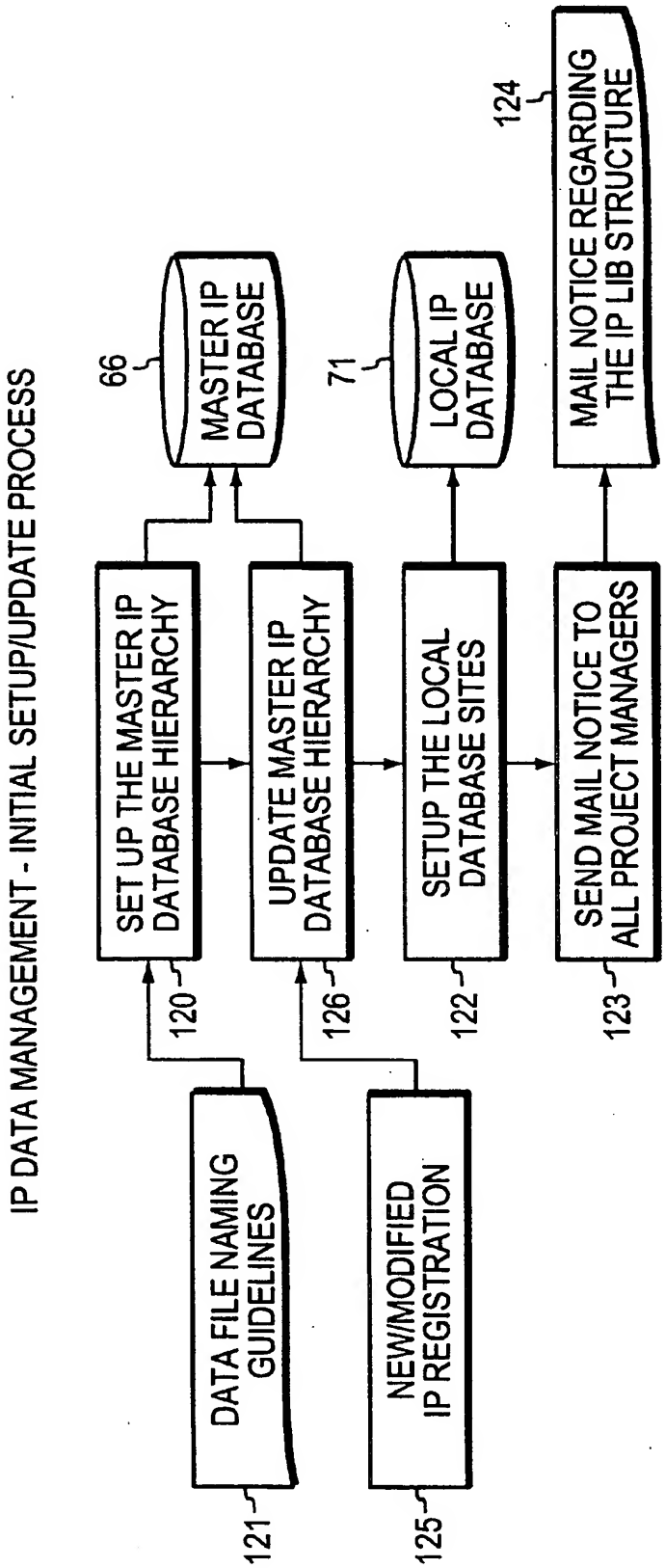
IP DATA MANAGEMENT - INITIAL SETUP/UPDATE PROCESS
DATA FILE NAMING GUIDELINES
121
NEW/MODIFIED IP REGISTRATION
125
SET UP THE MASTER IP DATABASE HIERARCHY
120
UPDATE MASTER IP DATABASE HIERARCHY
126
SETUP THE LOCAL DATABASE SITES
122
SEND MAIL NOTICE TO ALL PROJECT MANAGERS
123
MASTER IP DATABASE
66
LOCAL IP DATABASE
71
MAIL NOTICE REGARDING THE IP LIB STRUCTURE
124

FIG. 8

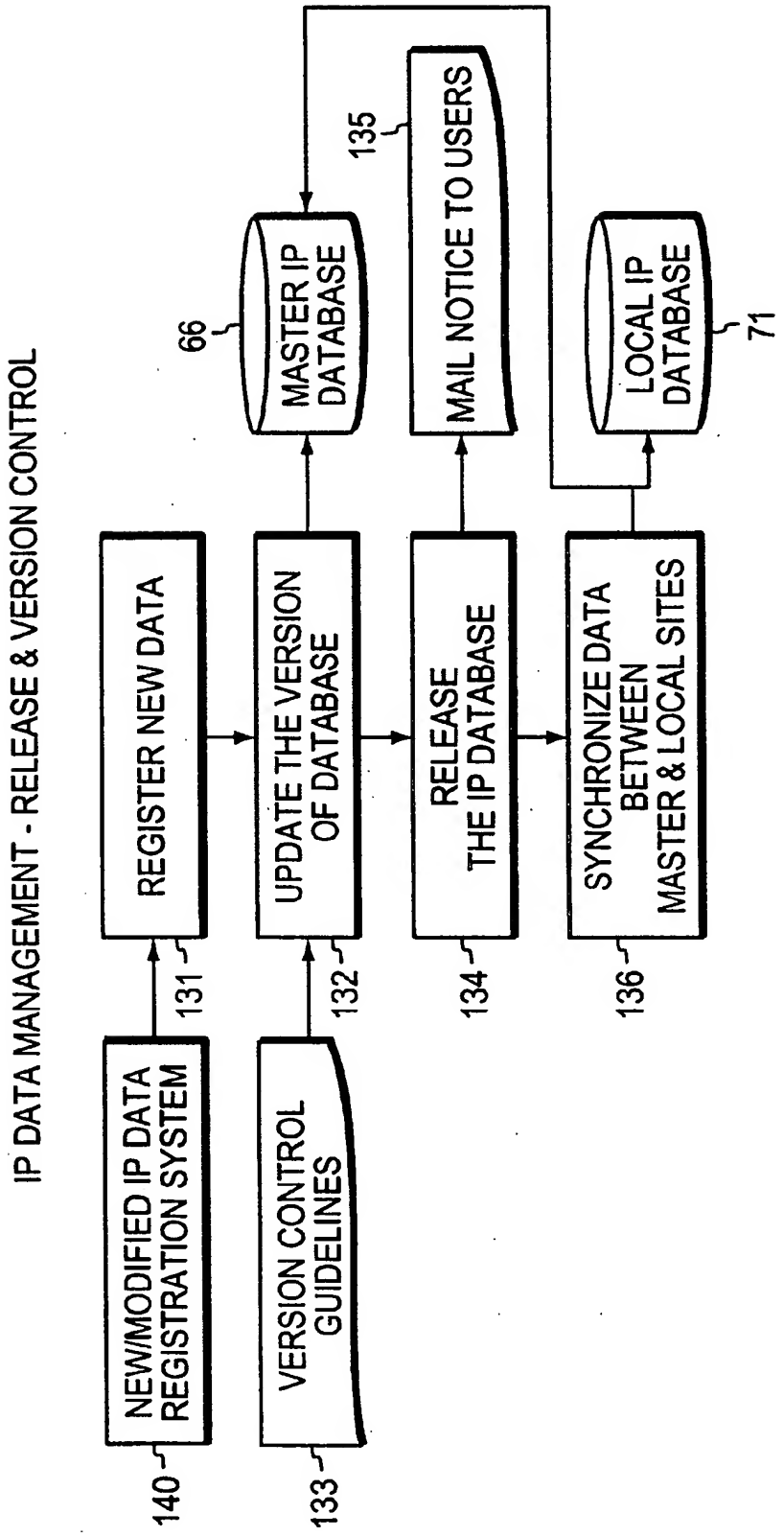
IP DATA MANAGEMENT - RELEASE & VERSION CONTROL
NEW/MODIFIED IP DATA REGISTRATION SYSTEM
140
VERSION CONTROL GUIDELINES
133
REGISTER NEW DATA
131
UPDATE THE VERSION OF DATABASE
132
RELEASE THE IP DATABASE
134
SYNCHRONIZE DATA BETWEEN MASTER & LOCAL SITES
136
MASTER IP DATABASE
66
MAIL NOTICE TO USERS
135
LOCAL IP DATABASE
71

FIG. 9

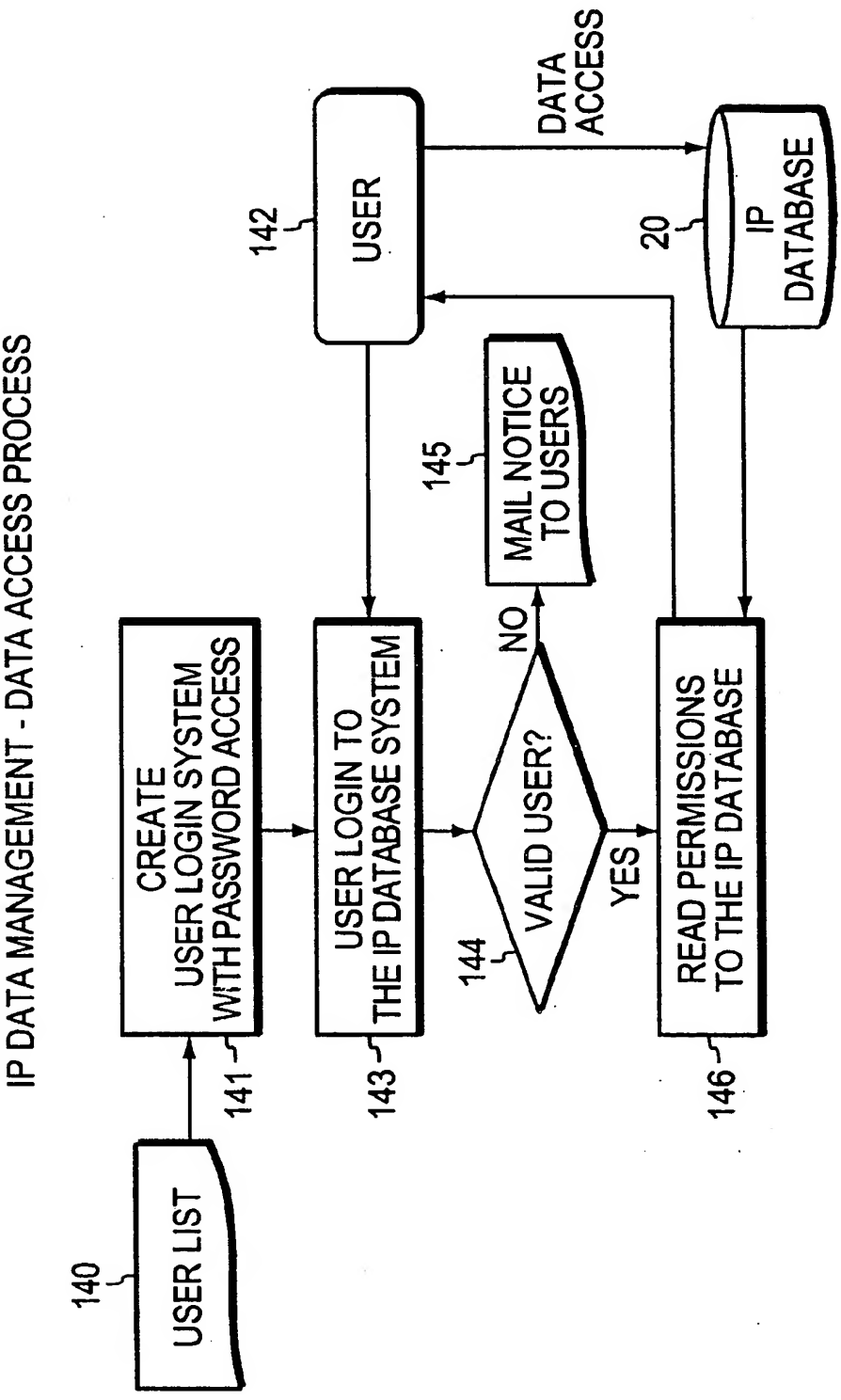
IP DATA MANAGEMENT - DATA ACCESS PROCESS
USER LIST
140
CREATE USER LOGIN SYSTEM WITH PASSWORD ACCESS
141
USER LOGIN TO THE IP DATABASE SYSTEM
143
VALID USER?
144
NO
YES
MAIL NOTICE TO USERS
145
READ PERMISSIONS TO THE IP DATABASE
146
USER
142
DATA ACCESS
IP DATABASE
20

FIG. 10

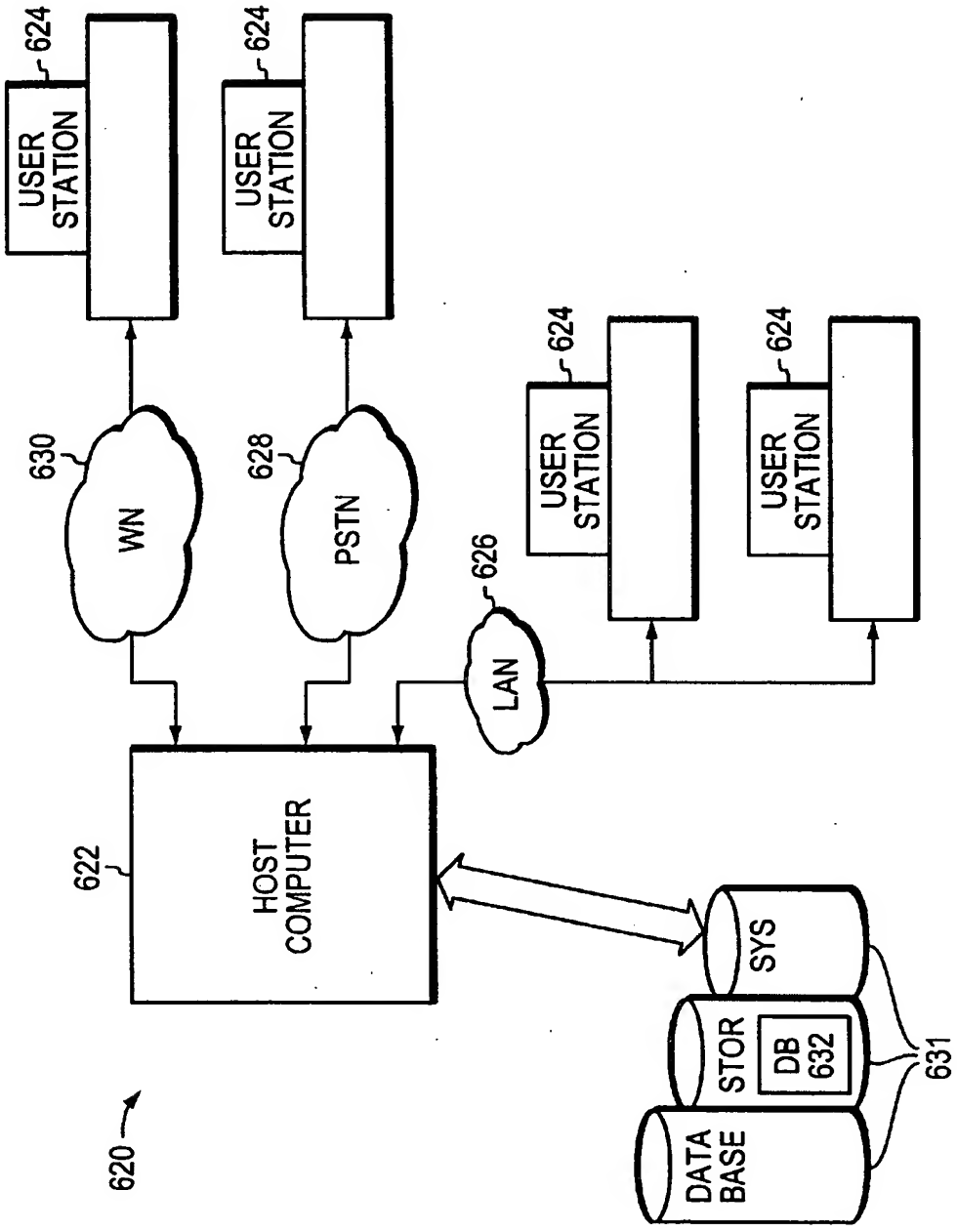
620
622
HOST COMPUTER
626
LAN
630
WN
628
PSTN
624
USER STATION
624
USER STATION
624
USER STATION
624
USER STATION
631
SYS
STOR
DB 632
DATA BASE

FIG. 11

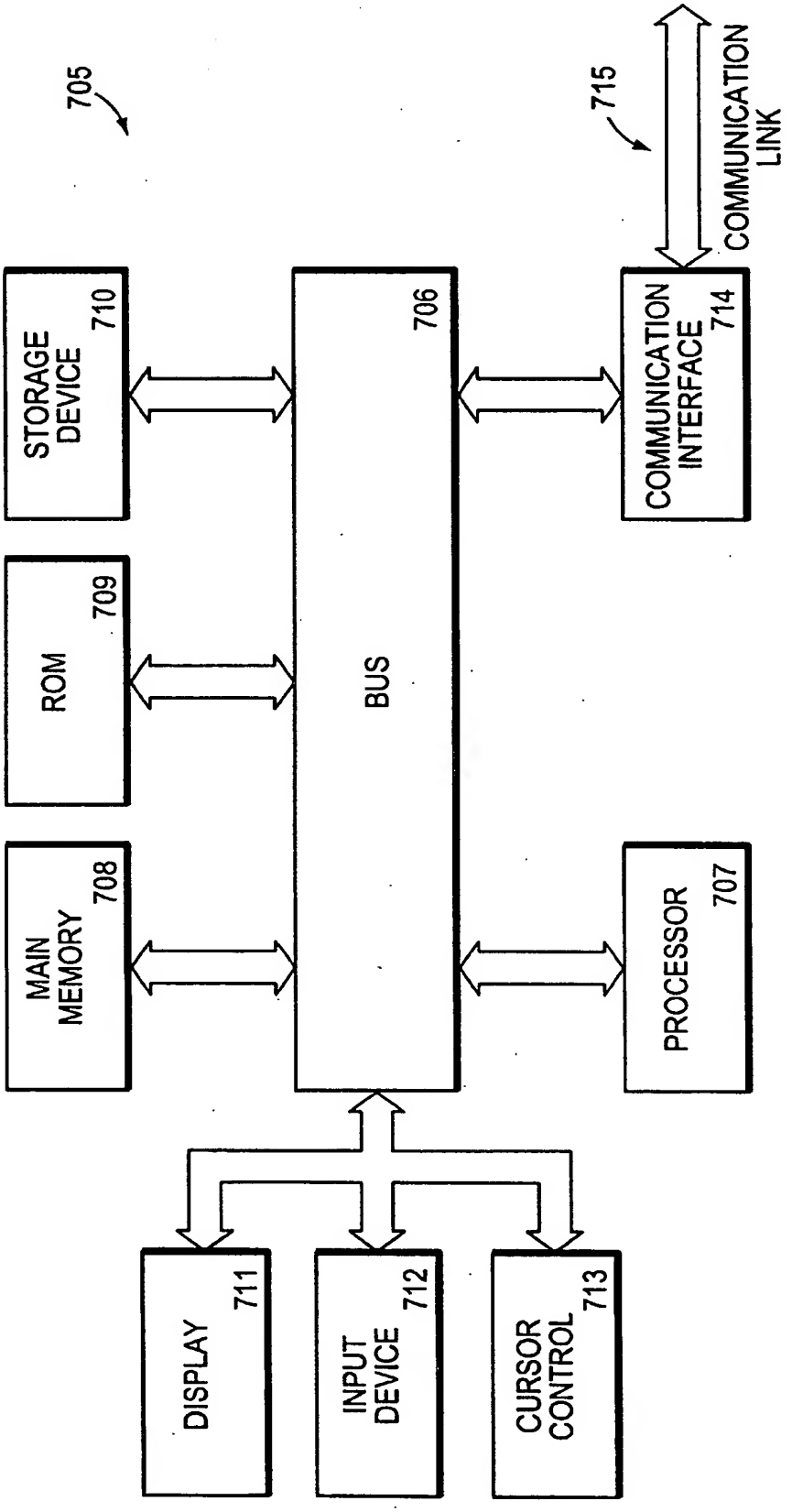
705
715
COMMUNICATION LINK
STORAGE DEVICE 710
ROM 709
MAIN MEMORY 708
BUS 706
COMMUNICATION INTERFACE 714
PROCESSOR 707
DISPLAY 711
INPUT DEVICE 712
CURSOR CONTROL 713

FIG. 12